

### **WHAT IS CLAIMED IS:**

1. A vacuum pump, comprising a flange provided on a suction side of the pump for connection with a connection flange of a recipient, and a tempering component to be arranged between the suction side flange of the pump and the recipient connection flange and including tempering means.
2. A vacuum pump as set forth in claim 1, wherein the tempering means comprises a circumferential groove provided on the component, and a hollow body received in the groove.
3. A vacuum pump as set forth in claim 1, wherein the tempering means comprises a circumferential groove provided on the component, and means for closing the groove comprising a sleeve and sealing means.
4. A vacuum pump as set forth in claim 1, wherein the tempering means comprises a plurality of bores formed in the component and extending each in a respective tangential direction.

5. A vacuum pump as set forth in claim 1, wherein the tempering means includes means for flowing a tempering fluid therethrough.

6. A vacuum pump as set forth in claim 5, further comprising temperature control means connected with the tempering means.

7. A vacuum pump as set forth in claim 1, wherein a plurality of tempering components is provided between the suction side flange and the recipient connection flange.